



KADUNA STATE UNIVERSITY LIBRARY

(KASU MARCHING TO EXCELLENCE: DIGITALIZATION AND AUTONOMY)

Presents

1st

**INTERNATIONAL INTERDISCIPLINARY
RESEARCH CONFERENCE, 2024**

Theme:

**TRANSFORMATIVE RESEARCH:
SHAPING THE FUTURE THROUGH
INNOVATION AND COLLABORATION**

Date: Mon. 2nd December, - Wed. 4th December, 2024

Time: 10:00 am

Venue: 1000 Seater, Kaduna State University, Kaduna.

SCHEDULE OF PROGRAMME/BOOK OF ABSTRACTS

HARNESSING ARTIFICIAL INTELLIGENCE FOR TRANSFORMATIVE LIBRARY AND RESEARCH PRACTICES: A PATHWAY TO INNOVATION AND COLLABORATION

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Abstract

The integration of Artificial Intelligence (AI) in library systems and research workflows is reshaping traditional practices, offering innovative solutions to emerging challenges. This paper examines the transformative potential of AI in academic libraries and interdisciplinary research, focusing on its ability to automate routine tasks, enhance metadata management, and improve user engagement. AI-powered tools, such as intelligent recommendation systems, automated content indexing, and machine learning algorithms, are enabling researchers to navigate vast datasets, streamline systematic reviews, and uncover hidden patterns in data. For librarians, AI offers opportunities to optimize cataloging processes, develop personalized services, and facilitate knowledge discovery across disciplines. Furthermore, this paper explores the ethical implications of AI adoption, addressing

concerns about data privacy, algorithmic bias, and the digital divide in access to advanced technologies. By fostering collaboration between librarians, researchers, and technology experts, institutions can create sustainable frameworks for integrating AI into library and research environments. To fully realize these benefits, the paper advocates for targeted capacity-building initiatives, including AI literacy workshops and digital skills training tailored to the needs of librarians and researchers. It concludes by emphasizing the importance of ethical guidelines and institutional policies to ensure responsible AI use, promoting a balance between innovation and inclusivity. This approach aligns with the goals of transforming research practices, fostering interdisciplinary collaboration, and navigating the challenges of the digital age.

Keywords: Artificial Intelligence, Academic Libraries, Interdisciplinary Research, Metadata Management, Ethical AI, Digital Literacy